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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/873,287	06/05/2001	Tomio Sugiyama	MNL-2635-16	4759
	7590 01/12/2003 NDERHYE, PC	1	EXAMINER	
901 NORTH G ARLINGTON,	LEBE ROAD, 11TH F	LOOR	OLSEN, KAJ K	
ALLINOTON,	ART UNIT		PAPER NUMBER	
			1753	
			MAII DATE	DEL WEDV MODE
			MAIL DATE	DELIVERY MODE
			01/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	!
Advisory Action	09/873,287	SUGIYAMA, TOMIO	
Before the Filing of an Appeal Brief	Examiner	Art Unit	
	Kaj K. Olsen	1753	
The MAILING DATE of this communication app	pears on the cover sheet with the	correspondence add	ress
THE REPLY FILED 08 December 2006 FAILS TO PLACE TH	IIS APPLICATION IN CONDITION F	OR ALLOWANCE.	
<ol> <li>The reply was filed after a final rejection, but prior to ore this application, applicant must timely file one of the foll places the application in condition for allowance; (2) a National a Request for Continued Examination (RCE) in compliation time periods:</li> <li>a) The period for reply expires 3 months from the mailing day.</li> </ol>	lowing replies: (1) an amendment, af Notice of Appeal (with appeal fee) in Ince with 37 CFR 1.114. The reply mate of the final rejection.	fidavit, or other eviden compliance with 37 CF ust be filed within one	ce, which FR 41.31; or (3) of the following
b) The period for reply expires on: (1) the mailing date of this no event, however, will the statutory period for reply expire	e later than SIX MONTHS from the mailin	g date of the final rejection	on.
Examiner Note: If box 1 is checked, check either box (a) on TWO MONTHS OF THE FINAL REJECTION. See MPEP		E FIRST REPLY WAS FI	LED WITHIN
Extensions of time may be obtained under 37 CFR 1.136(a). The da have been filed is the date for purposes of determining the period of under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office large may reduce any earned patent term adjustment. See 37 CFR 1.704(NOTICE OF APPEAL)	te on which the petition under 37 CFR 1. extension and the corresponding amount e shortened statutory period for reply orig ter than three months after the mailing da	of the fee. The appropri	ate extension fee be action; or (2) as
2. The Notice of Appeal was filed on A brief in corfiling the Notice of Appeal (37 CFR 41.37(a)), or any exa Notice of Appeal has been filed, any reply must be file AMENDMENTS	tension thereof (37 CFR 41.37(e)), to	avoid dismissal of the	s of the date of e appeal. Since
3. The proposed amendment(s) filed after a final rejection  (a) They raise new issues that would require further of  (b) They raise the issue of new matter (see NOTE be  (c) They are not deemed to place the application in be appeal; and/or  (d) They present additional claims without canceling and NOTE:  (See 37 CFR 1.116 and 41.33(a))	consideration and/or search (see NO clow); etter form for appeal by materially re a corresponding number of finally rej	TE below); ducing or simplifying t	
4. The amendments are not in compliance with 37 CFR 1.	.121. See attached Notice of Non-Co	mpliant Amendment (	PTOL-324).
<ul> <li>5. Applicant's reply has overcome the following rejection(</li> <li>6. Newly proposed or amended claim(s) would be non-allowable claim(s).</li> </ul>	s):		
7. For purposes of appeal, the proposed amendment(s): a how the new or amended claims would be rejected is proposed amendment(s): a follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: Claim(s) withdrawn from consideration:	n)	ll be entered and an e	xplanation of
AFFIDAVIT OR OTHER EVIDENCE			
8. The affidavit or other evidence filed after a final action, because applicant failed to provide a showing of good a was not earlier presented. See 37 CFR 1.116(e).	and sufficient reasons why the affidav	vit or other evidence is	necessary and
9. The affidavit or other evidence filed after the date of filin	g a Notice of Appeal, but prior to the	date of filing a brief, w	vill <u>not</u> be

## U.S. Patent and Trademark Office PTOL-303 (Rev. 08-06)

13. Other: \_\_\_\_.

REQUEST FOR RECONSIDERATION/OTHER

see attached discussion.

entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a

showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s).

11. The request for reconsideration has been considered but does NOT place the application in condition for allowance because:

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## **DETAILED ACTION**

## Response to Arguments

- 1. Applicant's arguments filed 12-8-2006 have been fully considered but they are not persuasive. Applicant urges that neither Kobayashi nor Nanataki teach the formation of a crystal phase containing silicon dioxide between the solid electrolyte sheet and insulating sheet.

  However, the instant invention evidenced that this crystal phase was an inherent result of the addition of silicon dioxide to the electrolyte. Because it was already known in the art to add silicon dioxide to an electrolyte for different reasons (see Kobayashi and Nanataki), then this addition of silicon dioxide to the electrolyte of Tatumoto, which Kobayashi and Nanataki both provided motivation for doing, would have inherently resulted in a crystal phase between the electrolyte and insulating sheets. A patent cannot be granted for an applicant's discovery of a result, even though it may have been unexpected good, which would have flown logically from the teaching of the prior art.
- 2. Applicant also traverses the examiner's use of Fujishiro as providing evidence that the silicon dioxide added to the electrolyte forms a distinct phase on the surface of the electrolyte. In particular, applicant urges that Fujishiro only suggests that added silicon dioxide has a strong affinity for the metallic coating. First, the examiner is confused about the applicant's continued emphasis on the teaching of Fujishiro when Fujishiro is merely being utilized as an evidentiary teaching and is only being utilized as that in the alternative to the evidence from the instant invention. Second, applicant is missing the larger teaching of Fujishiro that it was known that silicon dioxide added to an electrolyte formed a phase distinct from the electrolyte itself when subjected to a heat treatment. One possessing ordinary skill in the art would recognize that this

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would be true regardless of whether a metal or some other component were at the surface of the electrolyte. In particular, Fujishiro teaches that the silicon dioxide added to electrolyte forms a phase distinct from the electrolyte <u>and</u> that that phase has strong affinity for the metal surface. See col. 5, ll. 21-26. There is nothing in Fujishiro to suggest that this distinct phase only forms because of the metal surface nor is there any reason to believe so either. Whether or not the

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function of the solubility of silicon dioxide in the zirconia during the sintering.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kaj Olsen whose telephone number is (571) 272-1344. The

silicon dioxide would separate itself from the zirconia solid solution would appear to be a

examiner can normally be reached on Monday through Friday from 8:00 A.M. to 4:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen, can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AU 1753 January 9, 2007

> KAJ K. OLSEN PRIMARY EXAMINER